

# Joao Rocha

## List of Publications by Citations

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ext. papers

22,114  
ext. citations

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L-index

#	Paper	IF	Citations
554	Luminescent multifunctional lanthanides-based metal-organic frameworks. <i>Chemical Society Reviews</i> , <b>2011</b> , 40, 926-40	58.5	1324
553	Ligand design for functional metal-organic frameworks. <i>Chemical Society Reviews</i> , <b>2012</b> , 41, 1088-110	58.5	659
552	Structure of the microporous titanosilicate ETS-10. <i>Nature</i> , <b>1994</b> , 367, 347-351	50.4	470
551	Metal-organic nanoporous structures with anisotropic photoluminescence and magnetic properties and their use as sensors. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 1080-3	16.4	367
550	Microwave-assisted synthesis of metal-organic frameworks. <i>Dalton Transactions</i> , <b>2011</b> , 40, 321-30	4.3	349
549	Lanthanide Organic Framework Luminescent Thermometers. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 14782-14795	4.8	312
548	A miniaturized linear pH sensor based on a highly photoluminescent self-assembled europium(III) metal-organic framework. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 6476-9	16.4	293
547	Ratiometric nanothermometer based on an emissive Ln <sup>3+</sup> -organic framework. <i>ACS Nano</i> , <b>2013</b> , 7, 7213-86.7	8.6.7	280
546	An optimised method to determine the degree of acetylation of chitin and chitosan by FTIR spectroscopy. <i>International Journal of Biological Macromolecules</i> , <b>2002</b> , 31, 1-8	7.9	244
545	Instantaneous ballistic velocity of suspended Brownian nanocrystals measured by upconversion nanothermometry. <i>Nature Nanotechnology</i> , <b>2016</b> , 11, 851-856	28.7	227
544	All-in-one optical heater-thermometer nanoplatfom operative from 300 to 2000 k based on Er(3+) emission and blackbody radiation. <i>Advanced Materials</i> , <b>2013</b> , 25, 4868-74	24	219
543	Microporous Titanosilicates and other Novel Mixed Octahedral-Tetrahedral Framework Oxides. <i>European Journal of Inorganic Chemistry</i> , <b>2000</b> , 2000, 801-818	2.3	213
542	Lanthanide Organic Framework Nanothermometers Prepared by Spray-Drying. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 2824-2830	15.6	210
541	Microporous titanosilicate ETS-10: A structural survey. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , <b>1995</b> , 71, 813-841		197
540	Reconstruction of layered double hydroxides from calcined precursors: a powder XRD and 27Al MAS NMR study. <i>Journal of Materials Chemistry</i> , <b>1999</b> , 9, 2499-2503		183
539	Boosting the sensitivity of Nd(3+)-based luminescent nanothermometers. <i>Nanoscale</i> , <b>2015</b> , 7, 17261-7	7.7	172
538	Mg,Al layered double hydroxides with intercalated indomethacin: synthesis, characterization, and pharmacological study. <i>Journal of Pharmaceutical Sciences</i> , <b>2004</b> , 93, 1649-58	3.9	150

537	MCM-41 functionalized with bipyridyl groups and its use as a support for oxomolybdenum(VI) catalysts. <i>Journal of Materials Chemistry</i> , <b>2002</b> , 12, 1735-1742		150
536	Interconvertible modular framework and layered lanthanide(III)-etidronic acid coordination polymers. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 150-67	16.4	148
535	<sup>29</sup> Si and <sup>27</sup> Al magic-angle-spinning NMR studies of the thermal transformation of kaolinite. <i>Physics and Chemistry of Minerals</i> , <b>1990</b> , 17, 179	1.6	148
534	Adsorption and Activation of CO <sub>2</sub> by Amine-Modified Nanoporous Materials Studied by Solid-State NMR and <sup>13</sup> C CO <sub>2</sub> Adsorption. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 1387-1395	9.6	147
533	Visible-Light Excited Luminescent Thermometer Based on Single Lanthanide Organic Frameworks. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 8677-8684	15.6	143
532	Optically Functional Di-Urethane Sil Nanohybrids Containing Eu <sup>3+</sup> Ions. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 2530-2543	9.6	136
531	Fine tuning of the relaxometry of Fe <sub>2</sub> O <sub>3</sub> @SiO <sub>2</sub> nanoparticles by tweaking the silica coating thickness. <i>ACS Nano</i> , <b>2010</b> , 4, 5339-49	16.7	130
530	The effect of natural zeolite on microstructure, mechanical and heavy metals adsorption properties of metakaolin based geopolymers. <i>Applied Clay Science</i> , <b>2016</b> , 126, 141-152	5.2	116
529	Synthesis and characterization of layered double hydroxides (LDH) intercalated with non-steroidal anti-inflammatory drugs (NSAID). <i>Journal of Solid State Chemistry</i> , <b>2004</b> , 177, 3954-3962	3.3	115
528	Photoluminescent thermometer based on a phase-transition lanthanide silicate with unusual structural disorder. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 3051-8	16.4	112
527	Functional nanostructured chitosan-siloxane hybrids. <i>Journal of Materials Chemistry</i> , <b>2005</b> , 15, 3952		110
526	Photoluminescent 3D Lanthanide Organic Frameworks with 2,5-Pyridinedicarboxylic and 1,4-Phenylenediacetic Acids. <i>Crystal Growth and Design</i> , <b>2008</b> , 8, 2505-2516	3.5	109
525	Synthesis and Structural Characterization of Microporous Umbite, Penkvilksite, and Other Titanosilicates. <i>Journal of Physical Chemistry B</i> , <b>1997</b> , 101, 7114-7120	3.4	104
524	Conversion of furfuryl alcohol to ethyl levulinate using porous aluminosilicate acid catalysts. <i>Catalysis Today</i> , <b>2013</b> , 218-219, 76-84	5.3	101
523	Zeolite Structures Loading with an Anticancer Compound As Drug Delivery Systems. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 25642-25650	3.8	100
522	Functional cationic nanomagnet-porphyrin hybrids for the photoinactivation of microorganisms. <i>ACS Nano</i> , <b>2010</b> , 4, 7133-40	16.7	98
521	Morphology and miscibility of chitosan/soy protein blended membranes. <i>Carbohydrate Polymers</i> , <b>2007</b> , 70, 25-31	10.3	97
520	Photoluminescent layered lanthanide silicates. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 10416-7	16.7	96

519	Photoluminescence and Quantum Yields of Urea and Urethane Cross-Linked Nanohybrids Derived from Carboxylic Acid Solvolysis. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 1507-1516	9.6	95
518	Novel microporous europium and terbium silicates. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 5735-42	16.4	94
517	Photoluminescent lanthanide-organic bilayer networks with 2,3-pyrazinedicarboxylate and oxalate. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 3428-40	5.1	92
516	Effect of the Mg:Al Ratio on Borate (or Silicate)/Nitrate Exchange in Hydrotalcite. <i>Journal of Solid State Chemistry</i> , <b>2000</b> , 151, 272-280	3.3	92
515	Influence of microwave radiation on the textural properties of layered double hydroxides. <i>Microporous and Mesoporous Materials</i> , <b>2006</b> , 94, 148-158	5.3	91
514	Isomerization of d-glucose to d-fructose over metallosilicate solid bases. <i>Applied Catalysis A: General</i> , <b>2008</b> , 339, 21-27	5.1	88
513	Determination of the degree of acetylation of chitin materials by <sup>13</sup> C CP/MAS NMR spectroscopy. <i>International Journal of Biological Macromolecules</i> , <b>2001</b> , 28, 359-63	7.9	87
512	Multi-functional rare-earth hybrid layered networks: photoluminescence and catalysis studies. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 2618		85
511	Photoinactivation of bacteria in wastewater by porphyrins: bacterial beta-galactosidase activity and leucine-uptake as methods to monitor the process. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2007</b> , 88, 112-8	6.7	84
510	Effect of extra-lattice aluminium species on the activity, selectivity and stability of acid zeolites in the liquid phase isomerisation of $\alpha$ -pinene. <i>Applied Catalysis A: General</i> , <b>1996</b> , 142, 255-278	5.1	82
509	Nanosopic Photoluminescence Memory as a Fingerprint of Complexity in Self-Assembled Alkyl/Siloxane Hybrids. <i>Advanced Materials</i> , <b>2007</b> , 19, 341-348	24	81
508	Liquid-phase Dehydration of d-xylose over Microporous and Mesoporous Niobium Silicates. <i>Catalysis Letters</i> , <b>2006</b> , 108, 179-186	2.8	80
507	Ordered benzene/silica hybrids with molecular-scale periodicity in the walls and different mesopore sizes. <i>Journal of Materials Chemistry</i> , <b>2003</b> , 13, 1910-1913		78
506	Microporous materials containing lanthanide metals. <i>Current Opinion in Solid State and Materials Science</i> , <b>2003</b> , 7, 199-205	12	77
505	Potential of 5-fluorouracil encapsulated in zeolites as drug delivery systems for in vitro models of colorectal carcinoma. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2013</b> , 112, 237-44	6	76
504	Solid-State NMR Studies of the Structure and Reactivity of Metakaolinite. <i>Angewandte Chemie International Edition in English</i> , <b>1990</b> , 29, 553-554		76
503	<sup>13</sup> C solid-state nuclear magnetic resonance and Fourier transform infrared studies of the thermal decomposition of cork. <i>Solid State Nuclear Magnetic Resonance</i> , <b>1995</b> , 4, 143-51	3.1	75
502	Enhanced photocatalytic activity of MIL-125 by post-synthetic modification with Cr(III) and Ag nanoparticles. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 11072-81	4.8	74

501	Evaluation of [Ln(H <sub>2</sub> cmp)(H <sub>2</sub> O)] metal organic framework materials for potential application as magnetic resonance imaging contrast agents. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 2969-74	5.1	73
500	Synthesis of microporous titanasilicate ETS-10 from TiCl <sub>3</sub> and TiO <sub>2</sub> : a comprehensive study. <i>Microporous and Mesoporous Materials</i> , <b>1998</b> , 23, 253-263	5.3	73
499	Processing, stability and oxygen permeability of Sr(Fe, Al)O <sub>3</sub> -based ceramic membranes. <i>Journal of Membrane Science</i> , <b>2005</b> , 252, 215-225	9.6	71
498	Cu-BTC metal-organic framework natural fabric composites for fuel purification. <i>Fuel Processing Technology</i> , <b>2017</b> , 159, 306-312	7.2	70
497	Three-Dimensional Lanthanide Organic Frameworks Based on Di-, Tetra-, and Hexameric Clusters. <i>Crystal Growth and Design</i> , <b>2009</b> , 9, 2098-2109	3.5	70
496	Synthesis and characterization of tungsten trioxide powders prepared from tungstic acids. <i>Materials Research Bulletin</i> , <b>2004</b> , 39, 683-693	5.1	70
495	Influence of the CaO/MgO ratio on the structure of phase-separated glasses: a solid state <sup>29</sup> Si and <sup>31</sup> P MAS NMR study. <i>Journal of Non-Crystalline Solids</i> , <b>2000</b> , 265, 221-229	3.9	70
494	Metal Organic Nanoporous Structures with Anisotropic Photoluminescence and Magnetic Properties and Their Use as Sensors. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 1096-1099	3.6	69
493	Dioxomolybdenum(VI) modified mesoporous materials for the catalytic epoxidation of olefins. <i>Catalysis Today</i> , <b>2006</b> , 114, 263-271	5.3	68
492	Microporous Mixed Octahedral-Pentahedral-Tetrahedral Framework Silicates. <i>Reviews in Mineralogy and Geochemistry</i> , <b>2005</b> , 57, 173-201	7.1	68
491	Immobilization of oxomolybdenum species in a layered double hydroxide pillared by 2,2'-bipyridine-5,5'-dicarboxylate anions. <i>Inorganic Chemistry</i> , <b>2004</b> , 43, 5422-31	5.1	68
490	A <sup>13</sup> C solid state nuclear magnetic resonance spectroscopic study of cork cell wall structure: the effect of suberin removal. <i>International Journal of Biological Macromolecules</i> , <b>1997</b> , 20, 293-305	7.9	67
489	Novel microporous lanthanide silicates with tobermorite-like structure. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 14573-9	16.4	67
488	Controlling hydrolysis and dispersion of AlN powders in aqueous media. <i>Journal of Colloid and Interface Science</i> , <b>2003</b> , 261, 456-63	9.3	66
487	Photoluminescent Lanthanide Organic 2D Networks: A Combined Synchrotron Powder X-ray Diffraction and Solid-State NMR Study. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 3527-3538	9.6	65
486	Chiral dioxomolybdenum(VI) complexes for enantioselective alkene epoxidation. <i>Journal of Organometallic Chemistry</i> , <b>2001</b> , 626, 1-10	2.3	65
485	Determination of the Structure of Distorted TiO <sub>6</sub> Units in the Titanosilicate ETS-10 by a Combination of X-ray Absorption Spectroscopy and Computer Modeling. <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 449-452		65
484	Efficient sorbents based on magnetite coated with siliceous hybrid shells for removal of mercury ions. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 8134	13	64

- 483 Molecular structure-activity relationships for the oxidation of organic compounds using mesoporous silica catalysts derivatised with bis(halogeno)dioxomolybdenum(VI) complexes. *Chemistry - A European Journal*, **2003**, 9, 4380-90 4.8 64
- 482 Microwave-hydrothermally aged Zn,Al hydrotalcite-like compounds: Influence of the composition and the irradiation conditions. *Microporous and Mesoporous Materials*, **2008**, 110, 292-302 5.3 63
- 481 Synthesis, Characterization, and Luminescence of  $\beta$ -Cyclodextrin Inclusion Compounds Containing Europium(III) and Gadolinium(III) Tris( $\beta$ -diketonates). *Journal of Physical Chemistry B*, **2002**, 106, 11430-11437 2.4 63
- 480 Synthesis of zeolite Na-A from metakaolinite revisited. *Journal of the Chemical Society, Faraday Transactions*, **1991**, 87, 3091 63
- 479 Series of metal organic frameworks assembled from Ln(III), Na(I), and chiral flexible-achiral rigid dicarboxylates exhibiting tunable UV-vis-IR light emission. *Inorganic Chemistry*, **2012**, 51, 1703-16 5.1 62
- 478 Metal-Organic Frameworks assembled from tetraphosphonic ligands and lanthanides. *Coordination Chemistry Reviews*, **2018**, 355, 133-149 23.2 61
- 477 The First Large-Pore Vanadosilicate Framework Containing Hexacoordinated Vanadium. *Angewandte Chemie International Edition in English*, **1997**, 36, 100-102 61
- 476 Hybrid organic-inorganic perovskites: Polar properties and applications. *Coordination Chemistry Reviews*, **2019**, 387, 398-414 23.2 60
- 475 Photoluminescence of Eu(III)-doped lamellar bridged silsesquioxanes self-templated through a hydrogen bonding array. *Journal of Materials Chemistry*, **2008**, 18, 4172 60
- 474 Tuning the emission colour in mixed lanthanide microporous silicates: energy transfer, composition and chromaticity. *Journal of Materials Chemistry*, **2008**, 18, 1100 60
- 473 High-resolution heteronuclear correlation spectra between  $^{31}\text{P}$  and  $^{27}\text{Al}$  in microporous aluminophosphates. *Solid State Nuclear Magnetic Resonance*, **2002**, 21, 61-70 3.1 60
- 472 Modification of MOR by desilication treatments: Structural, textural and acidic characterization. *Microporous and Mesoporous Materials*, **2010**, 131, 350-357 5.3 59
- 471 Relaxometric Studies of  $\text{Fe}_2\text{O}_3@ \text{SiO}_2$  Core Shell Nanoparticles: When the Coating Matters. *Journal of Physical Chemistry C*, **2012**, 116, 2285-2291 3.8 58
- 470 Synthesis and characterisation of titanosilicate ETS-10 membranes. *Microporous and Mesoporous Materials*, **2004**, 67, 79-86 5.3 58
- 469  $^{27}\text{Al}$  quadrupole nutation and  $^1\text{H}$ - $^{27}\text{Al}$  cross-polarization solid-state NMR studies of ultrastable zeolite Y with fast magic-angle spinning. *Chemical Physics Letters*, **1991**, 187, 401-408 2.5 58
- 468 Characterisation of cystathionine gamma-lyase/hydrogen sulphide pathway in ischaemia/reperfusion injury of the mouse kidney: an in vivo study. *European Journal of Pharmacology*, **2009**, 606, 205-9 5.3 57
- 467 The First Microporous Framework Cerium Silicate. *Angewandte Chemie - International Edition*, **2000**, 39, 3276-3279 16.4 57
- 466 Kaolinite to halloysite-7  $\Gamma$  transformation in the kaolin deposit of S $\tilde{\text{B}}$  Vicente de Pereira, Portugal. *Clays and Clay Minerals*, **2001**, 49, 596-607 2.1 57

465	High-resolution <sup>1</sup> H homonuclear dipolar recoupling NMR spectra of biological solids at MAS rates up to 67 kHz. <i>Journal of Magnetic Resonance</i> , <b>2009</b> , 199, 111-4	3	56
464	Effects of Phonon Confinement on Anomalous Thermalization, Energy Transfer, and Upconversion in Ln <sup>3+</sup> -Doped Gd <sub>2</sub> O <sub>3</sub> Nanotubes. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 624-634	15.6	56
463	Hydro-Ionothermal Synthesis of Lanthanide-Organic Frameworks with 1,4-Phenylenebis(methylene)diphosphonate. <i>Crystal Growth and Design</i> , <b>2008</b> , 8, 3917-3920	3.5	56
462	Oxidative delignification in the presence of molybdovanadophosphate heteropolyanions: mechanism and kinetic studies. <i>Applied Catalysis A: General</i> , <b>1998</b> , 167, 123-139	5.1	55
461	Mesoporous Silicas Modified with Dioxomolybdenum(VI) Complexes: Synthesis and Catalysis. <i>European Journal of Inorganic Chemistry</i> , <b>2000</b> , 2000, 2263-2270	2.3	55
460	Removal of low concentration Hg <sup>2+</sup> from natural waters by microporous and layered titanosilicates. <i>Microporous and Mesoporous Materials</i> , <b>2007</b> , 103, 325-332	5.3	54
459	Methane oxidation over Fe-, Co-, Ni- and V-containing mixed conductors. <i>Solid State Ionics</i> , <b>2005</b> , 176, 781-791	3.3	53
458	Emission-Decay Curves, Energy-Transfer and Effective-Refractive Index in Gd <sub>2</sub> O <sub>3</sub> :Eu <sup>3+</sup> Nanorods. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 15297-15303	3.8	52
457	Molecule-like Eu <sup>3+</sup> -dimers embedded in an extended system exhibit unique photoluminescence properties. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 8620-6	16.4	52
456	MCM-41 ordered mesoporous molecular sieves synthesis and characterization. <i>Materials Research</i> , <b>1999</b> , 2, 173-179	1.5	52
455	Thermal transformation of a layered multifunctional network into a metal-organic framework based on a polymeric organic linker. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 15120-38	16.4	51
454	Porous Materials Prepared from Clays for the Upgrade of Landfill Gas. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 14394-14402	3.8	51
453	Single- and Triple-Quantum <sup>27</sup> Al MAS NMR Study of the Thermal Transformation of Kaolinite. <i>Journal of Physical Chemistry B</i> , <b>1999</b> , 103, 9801-9804	3.4	51
452	Antimosquito Activity of a Titanium-Organic Framework Supported on Fabrics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 22112-22120	9.5	50
451	Excimer Formation in a Terbium Metal-Organic Framework Assists Luminescence Thermometry. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 9547-9554	9.6	50
450	Practical aspects of Lee-Goldburg based CRAMPS techniques for high-resolution <sup>1</sup> H NMR spectroscopy in solids: implementation and applications. <i>Journal of Magnetic Resonance</i> , <b>2008</b> , 194, 264-82	3	50
449	Monoterpenes oxidation in the presence of Y zeolite-entrapped manganese(III) tetra(4-N-benzylpyridyl)porphyrin. <i>Journal of Molecular Catalysis A</i> , <b>2003</b> , 201, 211-222		50
448	Studies on olefin epoxidation with t-BuOOH catalysed by dioxomolybdenum(VI) complexes of a novel chiral pyridyl alcoholate ligand. <i>New Journal of Chemistry</i> , <b>2001</b> , 25, 959-963	3.6	50

447	Structural studies of pillared saponite. <i>The Journal of Physical Chemistry</i> , <b>1993</b> , 97, 10389-10393		49
446	Near-infrared emitters based on post-synthetic modified Ln(3+)-IRMOF-3. <i>Chemical Communications</i> , <b>2013</b> , 49, 5019-21	5.8	48
445	(Gd,Yb,Tb)PO <sub>4</sub> up-conversion nanocrystals for bimodal luminescence-MR imaging. <i>Nanoscale</i> , <b>2012</b> , 4, 5154-62	7.7	48
444	Multi-functional metal-organic frameworks assembled from a tripodal organic linker. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 18354		48
443	Luminescent Polyoxotungstoeuropate Anion-Pillared Layered Double Hydroxides. <i>European Journal of Inorganic Chemistry</i> , <b>2006</b> , 2006, 726-734	2.3	48
442	Comparative study of Al-MCM materials prepared at room temperature with different aluminium sources and by some hydrothermal methods. <i>Microporous and Mesoporous Materials</i> , <b>2006</b> , 92, 270-285	5.3	48
441	Double-resonance decoupling for resolution enhancement of <sup>31</sup> P solid-state MAS and <sup>27</sup> Al → <sup>31</sup> P MQHETCOR NMR. <i>Solid State Nuclear Magnetic Resonance</i> , <b>2002</b> , 22, 501-12	3.1	48
440	New phosphors based on Eu <sup>3+</sup> -doped microporous titanosilicates. <i>Journal of Luminescence</i> , <b>2000</b> , 87-89, 1083-1086	3.8	48
439	Physicochemical characterization of silylated functionalized materials. <i>Journal of Colloid and Interface Science</i> , <b>2010</b> , 344, 603-10	9.3	47
438	Using pyridine amidoximes in 3d-metal cluster chemistry: a novel ferromagnetic Ni <sub>12</sub> complex from the use of pyridine-2-amidoxime. <i>Dalton Transactions</i> , <b>2008</b> , 3153-5	4.3	47
437	Lanthanide-polyphosphonate coordination polymers combining catalytic and photoluminescence properties. <i>Chemical Communications</i> , <b>2013</b> , 49, 6400-2	5.8	46
436	Direct synthesis without addition of acid of Al-SBA-15 with controllable porosity and high hydrothermal stability. <i>Microporous and Mesoporous Materials</i> , <b>2011</b> , 142, 526-534	5.3	45
435	Use of sulfoaluminate cement and bottom ash in the solidification/stabilization of galvanic sludge. <i>Journal of Hazardous Materials</i> , <b>2006</b> , 136, 837-45	12.8	45
434	Dioxomolybdenum(VI)-Modified Mesoporous MCM-41 and MCM-48 Materials for the Catalytic Epoxidation of Olefins. <i>European Journal of Inorganic Chemistry</i> , <b>2003</b> , 2003, 3870-3877	2.3	45
433	Textural, structural and acid properties of a catalytically active mesoporous aluminosilicate MCM-41. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1996</b> , 92, 4623		45
432	Solid-state NMR studies of the molecular motion in the kaolinite: DMSO intercalate. <i>Journal of the American Chemical Society</i> , <b>1992</b> , 114, 6867-6874	16.4	45
431	Oxidation of cyclohexane by transition-metal complexes with biomimetic ligands. <i>Catalysis Today</i> , <b>2013</b> , 203, 81-86	5.3	44
430	Synthesis and Characterization of Methyltrioxorhenium(VII) Immobilized in Bipyridyl-Functionalized Mesoporous Silica. <i>European Journal of Inorganic Chemistry</i> , <b>2002</b> , 2002, 1100-1107	2.3	44



429	Gas-Phase Oxidative Dehydrogenation of Cyclohexanol over ETS-10 and Related Materials. <i>Journal of Catalysis</i> , <b>2001</b> , 200, 99-105	7.3	44
428	Lanthanide-DTPA grafted silica nanoparticles as bimodal-imaging contrast agents. <i>Biomaterials</i> , <b>2012</b> , 33, 925-35	15.6	43
427	Photoluminescent porous alginate hybrid materials containing lanthanide ions. <i>Biomacromolecules</i> , <b>2008</b> , 9, 1945-50	6.9	43
426	Asymmetric cationic methyl pyridyl and pentafluorophenyl porphyrin encapsulated in zeolites: A cytochrome P-450 model. <i>Journal of Molecular Catalysis A</i> , <b>2005</b> , 237, 86-92		43
425	Synthesis and Structural Characterization of Zirconium Silicates. <i>Chemistry of Materials</i> , <b>2001</b> , 13, 355-363	6.6	43
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110	[N-(2-Ammonioethyl)ethylenediamine-2N,N'] <sub>2</sub> [hydrogenN-(phosphonomethyl)iminodiacetato]copper(II) sesquihydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2006</b> , 62, m335-m338		5
109	Methane oxidation over nanocrystalline Ce <sub>0.45</sub> Zr <sub>0.45</sub> La <sub>0.10</sub> O <sub>2-δ</sub> /Pt and Ce <sub>0.9</sub> Sm <sub>0.1</sub> O <sub>2-δ</sub> /Pt anodes. <i>Catalysis Letters</i> , <b>2006</b> , 112, 19-26	2.8	5
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40	Formation of Photoluminescent Lead Bromide Nanoparticles on Aluminoborosilicate Glass. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 12436-12442	3.8	1
39	Trimethyl 2,2',2''-[1,3,5-triazine-2,4,6-tri-yltris-(aza-nedi-yl)]triacetate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2010</b> , 66, o3243-4		1
38	A new supramolecular organic/inorganic adduct: $\{[\text{Eu}(\text{CH}_3\text{OH})(\text{H}_2\text{O})_8]_2[\text{Eu}(\text{H}_2\text{O})_8][\text{PW}_{12}\text{O}_{40}]_3\} \cdot 3(\text{C}_{14}\text{H}_{20}\text{O}_5) \cdot 2(\text{C}_{28}\text{H}_{40}\text{O}_{10}) \cdot 6(\text{CH}_3\text{OH}) \cdot 6(\text{H}_2\text{O})$ . <i>Journal of Molecular Structure</i> , <b>2011</b> , 989, 80-85	3.4	1
37	Improving the $^1\text{H}$ indirect dimension resolution of 2D CRAMPS NMR spectra: a simulation and experimental investigation. <i>Solid State Nuclear Magnetic Resonance</i> , <b>2011</b> , 39, 81-7	3.1	1
36	Dimethyl 5,5'-methyl-enebis(2-hy-droxy-benzoate). <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2012</b> , 68, o1404		1
35	Solid-state NMR studies of interstitial phosphorus atoms in rhodium carbonyl clusters. <i>Solid State Nuclear Magnetic Resonance</i> , <b>1997</b> , 8, 195-9	3.1	1
34	Engineering optical centres in microporous silicates and MOFs. <i>Studies in Surface Science and Catalysis</i> , <b>2008</b> , 79-84	1.8	1

33	Immobilisation of Ferricinium Cation into ETS-10 by Ion Exchange under Microwave Irradiation. <i>Materials Science Forum</i> , <b>2008</b> , 587-588, 453-457	0.4	1
32	Catalytic Performance of Copper-Substituted Polyoxotungstate Materials and X-Ray Structure of a New Sandwich-Type Compound. <i>Materials Science Forum</i> , <b>2008</b> , 587-588, 538-542	0.4	1
31	Removal of Mercury From Aqueous Solutions by ETS-4 Microporous Titanosilicate: Effect of Contact Time, Titanosilicate Mass and Initial Metal Concentration <b>2007</b> , 1019		1
30	Preparation of Photoluminescent Materials from a Lanthanide-Doped Microporous Titanosilicate Precursor. <i>Materials Science Forum</i> , <b>2006</b> , 514-516, 123-127	0.4	1
29	catena-[1,3-Diammoniopropane di- $\mu$ -hydroxo-di- $\mu$ -phosphato-trioxotriuranadium dihydrate]: a redetermination at 180 (2) K. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2003</b> , 59, m179-m182		1
28	The First Microporous Framework Cerium Silicate. <i>Angewandte Chemie</i> , <b>2000</b> , 112, 3414-3417	3.6	1
27	Decaqua-dioxidobis[[B]-N-(phospho-n-atometh-yl)imino-diacetato]-dizinc(II)-divanadium(IV) dihydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2007</b> , 64, m39-40		1
26	Poly[[aqua-[B]-picolinato-[2]-picolinato-dipicolinatopotassium(I)terbium(III)] 2.5-hydrate]. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2008</b> , 64, m529-30		1
25	Bis(tetra-methyl-amonium) bis-(2,4,5-carboxy-benzoate)-benzene-1,2,4,5-tetra-carboxylic acid (1/1). <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2007</b> , 64, o69-70		1
24	The dehydrated copper silicate Na <sub>2</sub> [Cu <sub>2</sub> Si <sub>4</sub> O <sub>11</sub> ]: a three-dimensional microporous framework with a linear Si-O-Si linkage. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2008</b> , 64, i13-i14		1
23	Multicomponent Synthesis of Luminescent Iminoboronates. <i>Molecules</i> , <b>2020</b> , 25,	4.8	1
22	Frontispiece: Electroactive Organic Building Blocks for the Chemical Design of Functional Porous Frameworks (MOFs and COFs) in Electronics. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26,	4.8	1
21	Solketal Production via Solvent-Free Acetalization of Glycerol over Triphosphonic-Lanthanide Coordination Polymers. <i>Catalysts</i> , <b>2021</b> , 11, 598	4	1
20	Storage and delivery of H <sub>2</sub> S by microporous and mesoporous materials. <i>Microporous and Mesoporous Materials</i> , <b>2021</b> , 320, 111093	5.3	1
19	Hydrogen bonding networks in gabapentin protic pharmaceutical salts: NMR and in silico studies. <i>Magnetic Resonance in Chemistry</i> , <b>2019</b> , 57, 243-255	2.1	1
18	Multiply Bonded Dimolybdenum Cation Immobilized in Mesoporous Silica: XAFS Analysis and Catalytic Activity in Cyclopentadiene Polymerization <b>2001</b> , 22, 1302		1
17	Push-pulling induces the excited-state intramolecular proton transfer in 2'-aminochalcones. <i>Dyes and Pigments</i> , <b>2022</b> , 202, 110275	4.6	1
16	Photoluminescent Zeolite-Type Lanthanide Silicates <b>2013</b> , 87-110		0

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8	Light-emitting lanthanide-based organic-inorganic hybrids. <i>Acta Crystallographica Section A: Foundations and Advances</i> , <b>2012</b> , 68, s49-s49		
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6	A two-dimensional solid-state $^2\text{H}$ exchange NMR study of the molecular motion in the kaolinite: DMSO intercalation compound. <i>Journal of Magnetic Resonance</i> , <b>1992</b> , 98, 524-533		
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4	Pyrene Tetrakisphosphate-Based Metal-Organic Framework: Structure and Photoluminescence. <i>European Journal of Inorganic Chemistry</i> , <b>2020</b> , 2020, 3565-3572	2.3	
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2	Photoluminescent Nanocrystals in a Multicomponent Aluminoborosilicate Glass. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 24925-24931	3.8	
1	Chapter 6. Characterization of Pharmaceutical Solids Combining NMR, X-ray diffraction and Computer Modelling. <i>RSC Drug Discovery Series</i> , 120-169	0.6	